

Type or printed name

Signature

RECEIVED

PTO/SB/21 (08-00) **Application Number** 09/720,028 Filing Date December 20, 2000 **First Named Inventor** Junichi HAYAKAWA et al. **FORM** Group Art Unit 2837 K. Lockett **Examiner Name** (to be used for all correspondence after initial filing) Total Number of Pages in This Submission Attorney Docket Number 0670-0251 ENCLOSURES (check all that apply) Assignment Papers After Allowance Communication to Fee Transmittal Form (for an Application) Group Appeal Communication to Board Drawing(s) Fee Attached of Appeals and Interferences Declaration and Power of Amendment / Reply Appeal Communication to Group Attorney (Appeal Notice, Brief, Reply Brief) After Final Licensing-related Papers Proprietary Information Petition Affidavits/declaration(s) Status Letter Petition to Convert to a Extension of Time Request Other Enclosures Provisional Application 1. **Express Abandonment Request** Power of Attorney, Revocation 2. Change of Correspondence 3. Information Disclosure Statement Address 4. Terminal Disclaimer Certified Copy of Priority 5. 6. Document(s) Request for Refund Response to Missing Parts/ CD, Number of CD(s) Incomplete Application Remarks The Commissioner is hereby authorized to charge any additional Response to Missing Parts fees required or credit any overpayments to Deposit Account No. 50under 37 CFR 1.52 or 1.53 2280 for the above identified docket number. SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT Eric J. Robinson, Reg. No. 38,285 Firm Robinson Intellectual Property Law Office, P.C. **PMB 955** Individual name 21010 Southbank Street Potomac Falls, VA 20165 Signature Date 1-22-03 **CERTIFICATE OF MAILING** I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, Washington, DC 20231 on the date indicated below.

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, Washington, DC 20231.

Date

Rose M. Fichtel

B



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of)	Art Unit: 2837
Junichi HAYAKAWA et al.)	Examiner: K. Lockett
Serial No. 09/720,028	·)	I hereby certify that this correspondence is being deposited with The United States Postal Service with sufficient postage as First Class Mail in an envelope addressed to: Commissioner for Patents, Washington, D.C. 20231, on 1-22-03
Filed: December 20, 2000)	
For: SPEAKER DIAPHRAGM)	

Honorable Commissioner of Patents

Washington, D.C. 20231

Sir:

AMENDMENT

able Commissioner of Patents

ngton, D.C. 20231

In response to the Office Action dated October 22, 2002 please amend the above-identified application as follows:

IN THE CLAIMS:

Please cancel claims 3, 8 and 10 and amend claims 1 and 5 as follows:

1. (Amended) A speaker diaphragm having a generally cone shape, comprising:

a plurality of projections forming a periodical structure along a circumferential direction in a slanted area of the speaker diaphragm, each projection extending radially from a central area to an edge portion and curving along the circumferential direction as the speaker diaphragm comes near to the edge portion; and

a plurality of recesses formed between the plurality of projections,

wherein at least one surface is curved in an area from each projection to each recess, and

wherein the odd number of projections are formed as counted along the circumferential direction, and the projection has a cross section like a screw propeller.